

SECRET

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*To DC,**Per your request**B**File BX6842 wrap up*


29 January 1968

MEMORANDUM FOR INFORMATION

SUBJECT: Analysis of Vehicle Track on BX6842

1. Vehicle course on BLACK SHIELD Mission BX6842 was planned to pass 15NM abeam SAM Site No. 267 (black line on attached chart).
2. Reference to SC&DM data indicates INS tracked to the left of planned course and positioned the vehicle 17 1/2 NM abeam SAM Site No. 267 (red line on attached chart).
3. Actual vehicle track, as determined by reference to mission photography, indicated error in the INS and positioned the vehicle 24 NM abeam SAM Site No. 267 (blue line on attached chart). NPIC determined the vehicle passed 22.75 NM abeam Site No. 267 by plotting vehicle nadir position on a smaller scale chart from the exact frame taken abeam the site.
4. The non-standard INS position error; i.e., 5.5 to 6 NM error more than one hour before terminal error of 4.3 NM, is explained by equipment malfunction which was discovered as a result of Project Headquarters mission analysis and subsequent investigation. Malfunction of a temperature control amplifier allowed random rather than precise torquing of gyros within the INS and, most probably, caused the type error experienced.

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Major, USAF

ATTACHMENT

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INS TRACK
PHOTO TRACK
PLANNED TRACK

